

Searching PAJ

Page 1 of 2

(p2 void)

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-009300

(43)Date of publication of application : 14.01.1988

(51)Int.Cl. H04R 3/12

(21)Application number : 61-152498

(71)Applicant : MATSUSHITA ELECTRIC IND CO LTD

(22)Date of filing : 27.06.1986

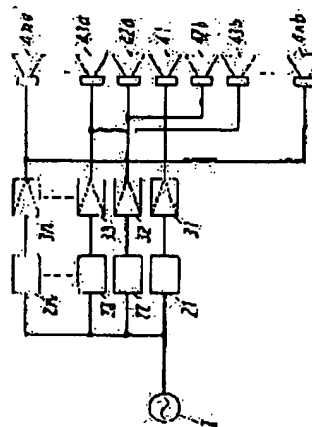
(72)Inventor : KISHIKAWA MITSUHIKO  
SATO KATSUMASA

## (54) SPEAKER SYSTEM

## (57)Abstract:

PURPOSE: To attain effective direction control by arranging plural speaker units nearly in a straight line, forming the set of parallel or series connection while using the center of arrangement as a reference and providing a delay means to each set so as to decrease number of units.

CONSTITUTION: Speaker units 41, 42a□4na, 4nb are arranged in a nearly straight line, the unit 41 placed at the center of the arrangement has a delay means 21 which retards an input signal and the speaker 41 is driven by an amplifier 31. Sets of parallel or series connection formed by selecting each one from units suffixed by a, b except the unit 41 selected as the reference are provided respectively with a delay means and an amplifier, by which an audio signal is retarded by a proper time and reproduced. Thus, the directivity control with much effect is attained by using a few number of speaker units and delay means and amplifiers being nearly a half or below the number of the speaker units.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

<http://www.kikkai.com/...> D=1031755252939

特開2003-9300(4)

1 ... 15 号機  
11~2n ... 遅延手段  
31~3n ... アンプ  
41, 42a~4na, 42b~4nb ...  
スピーカユニット

図 1 図

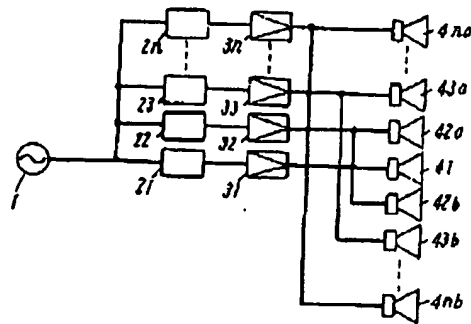


図 2 図

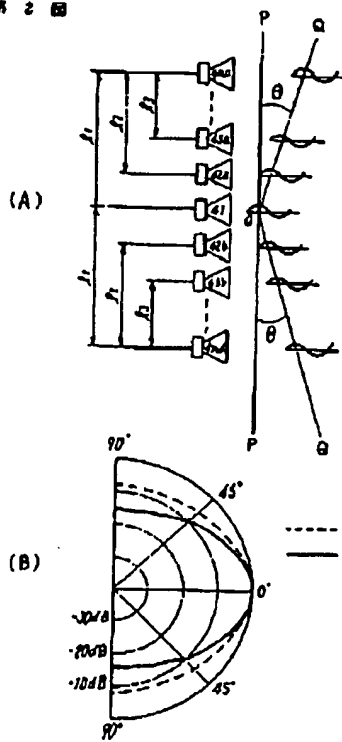
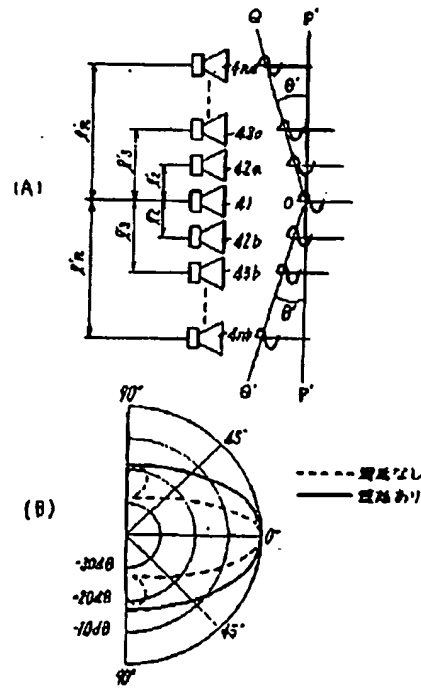


図 3 図



558---

<http://www.163.com/...> D=1031755282131

图 4-3 (5)

图 4-3

